



# R.I.T.A CORPORATION Technical Data Sheet

**RITA PEO-1**  
(INCI Nomenclature (formerly CTFA) . . . . PEG-5M)

**DEFINITION:** PEG-5M is the polymer of ethylene oxide hat conforms generally to the formula:



where n has an average value of 5000

**DESCRIPTION:** RITA PEO-1 is a water soluble, very mild, nonionic polymer compatible with most personal care ingredients. It adds lubricity to a formulation and has excellent film forming properties. Use concentration: 0.1-1%

## GENERAL DATA:

Physical Form @ 25°F	White powder
App. Molecular Weight	210,000
Softening Point, °C	65-67
Bulk Density, g/cm <sup>3</sup>	0.30
CAS Number	25322-68-3 (generic)

## SPECIFICATIONS:

IR	TMS
Viscosity (5% w/w aqueous)(RV, #1, 12RPM)@25°C	50-200 cps
Loss on Drying, %	1.0 Max
Residue on Ignition	
Silicon Dioxide, %	3.0 Max
Non-Silicon Dioxide, %	2.0 Max
Heavy Metals, %	0.001 Max
Free Ethylene Oxide, %	0.001 Max
OVI	Complies with USP

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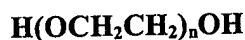


Dated : 10/20/94  
Updated: 12/15/95

## R.I.T.A Corporation Technical Data Sheet

RITA PEO-2  
(INCI Nomenclature (formerly CTFA) . . . . PEG-9M)

**DEFINITION:** PEG-9M is the polymer of ethylene oxide that conforms generally to the formula:



where n has an average value of 9000

**DESCRIPTION:** RITA PEO-2 is a water soluble, very mild, nonionic polymer compatible with most personal care ingredients. It adds lubricity to a formulation and has excellent film forming properties. Use concentration: 0.1-1%

### GENERAL DATA:

Physical Form @ 25°F	White powder
App. Molecular Weight	400,000
Softening Point, °C	65-67
Bulk Density, g/cm <sup>3</sup>	0.30
CAS Number	25322-68-3 (generic)

### SPECIFICATIONS:

Viscosity (5% w/w aqueous)	200-2500 cps
pH (5% w/w aqueous)	6-8
Particle Size	<16 Mesh

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## R.I.T.A Corporation Technical Data Sheet

**RITA PEO-3**  
(INCI Nomenclature (formerly CTFA) . . . . PEG-23M)

**DEFINITION:** PEG-23M is the polymer of ethylene oxide that conforms generally to the formula:



where n has an average value of 23000

**DESCRIPTION:** RITA PEO-3 is a water soluble, very mild, nonionic polymer compatible with most personal care ingredients. It adds lubricity to a formulation and has excellent film forming properties. Use concentration: 0.1-1%

### GENERAL DATA:

Physical Form @ 25°F	White powder
App. Molecular Weight	1,000,000
Softening Point, °C	65-67
Bulk Density, g/cm <sup>3</sup>	0.30
CAS Number	25322-68-3 (generic)

### SPECIFICATIONS:

Viscosity (5% w/w aqueous)	2500-5500 cps
pH (5% w/w aqueous)	6-8
Particle Size	<16 Mesh

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## R.I.T.A Corporation Technical Data Sheet

**RITA PEO-8**  
(INCI Nomenclature (formerly CTFA) . . . . PEG-45M)

**DEFINITION:** PEG-45M is the polymer of ethylene oxide that conforms generally to the formula:



where n has an average value of 45000

**DESCRIPTION:** RITA PEO-8 is a water soluble, very mild, nonionic polymer compatible with most personal care ingredients. It adds lubricity to a formulation and has excellent film forming properties. Use concentration: 0.1-1%

### GENERAL DATA:

Physical Form @ 25°F	White powder
App. Molecular Weight	1,900,000
Softening Point, °C	65-67
Bulk Density, g/cm <sup>3</sup>	0.30
CAS Number	25322-68-3 (generic)

### SPECIFICATIONS:

Viscosity (0.5% w/w aqueous)	20-70 cps
pH (0.5% w/w aqueous)	6-8
Particle Size	<16 Mesh

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## R.I.T.A Corporation Technical Data Sheet

**RITA PEO-18**  
(INCI Nomenclature (formerly CTFA) . . . . PEG-90M)

**DEFINITION:** PEG-90M is the polymer of ethylene oxide that conforms generally to the formula:



where n has an average value of 90000

**DESCRIPTION:** RITA PEO-18 is a water soluble, very mild, nonionic polymer compatible with most personal care ingredients. It adds lubricity to a formulation and has excellent film forming properties. Use concentration: 0.1-1%

### GENERAL DATA:

Physical Form @ 25°F	White powder
App. Molecular Weight	4,400,000
Softening Point, °C	65-67
Bulk Density, g/cm <sup>3</sup>	0.30
CAS Number	25322-68-3 (generic)

### SPECIFICATIONS:

Viscosity (0.5% w/w aqueous)	250-430 cps
pH (0.5% w/w aqueous)	6-8
Particle Size	<16 Mesh

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## R.I.T.A Corporation Technical Data Sheet

RITA PEO-27  
(Tentative INCI Nomenclature (formerly CTFA) . . . . PEG-160M)

**DEFINITION:** PEG-160M is the polymer of ethylene oxide that conforms generally to the formula:



where n has an average value of 160000

**DESCRIPTION:** RITA PEO-27 is a water soluble, very mild, nonionic polymer compatible with most personal care ingredients. It adds lubricity to a formulation and has excellent film forming properties. Use concentration: 0.1-1%

### GENERAL DATA:

Physical Form @ 25°F	White powder
App. Molecular Weight	7,200,000
Softening Point, °C	65-67
Bulk Density, g/cm <sup>3</sup>	0.30
CAS Number	25322-68-3 (generic)

### SPECIFICATIONS:

Viscosity (0.5% w/w aqueous)	600-800 cps
pH (0.5% w/w aqueous)	6-8
Particle Size	<16 Mesh

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